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CURRICULUM VITAE

NAME: YI XU

ORGANIZATION: Department of Commerce
National Oceanic & Atmospheric Administration
National Marine Fisheries Service
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PRESENT POSITION: RESEARCH ASSOCIATE

EDUCATION:

- **Doctor of Philosophy in Oceanography** 2003- 2009
University of Maine, School of Marine Sciences, Orono, Maine, USA
Dissertation: Modeling the Seasonal and Interannual Variability of Peruvian Anchovy
Population Dynamics: Linking Environmental Conditions with Fish
- **Bachelor of Sciences in Marine Sciences** 1999- 2003
Ocean University of China, College of Environmental Oceanography, Qingdao, China
Thesis: The Sea Surface Heat Fluxes in the East China Sea-Based on In-situ Data

EXPERIENCE:

- **Research Associate** 2012-present
NOAA-Southwest Fisheries Science Center, La Jolla, CA, USA
- **Research Assistant** 2003- 2009
University of Maine - Orono, ME, USA
- **Oceanographic researcher** 2007
IMARPE (Marine Institute of Peru), Lima, Peru
- **Research Analyst** 2001- 2003
Ocean University of China, Qingdao, China

RESEARCH INTERESTS:

Fish population dynamics and modeling, stock assessment, fish movement, fisheries oceanography, ecosystem modeling, individual based model

PUBLICATIONS:

- Xu, Y., S.L.H. Teo, K.R.Piner, K.-S. Chen, and R.J.D. Wells, 2016. Using an approximate length-conditional approach to estimate von Bertalanffy growth parameters of North Pacific albacore (*Thunnus alalunga*). *Fisheries Research*, 180, 138-146.
- Runcie, R., D. Holts, J. Wraith, Y. Xu, D. Ramon, R. Rasmussen, and S. Kohin, 2016. A fishery-independent survey of juvenile shortfin mako (*Isurus oxyrinchus*) and blue(*Prionace glauca*) sharks in the Southern California Bight, 1994-2013. *Fisheries Research*, in press.
- Xu, Y., K. Nieto, S.L.H. Teo, S. McClatchie, and J. Holmes, 2015. Influence on Subtropical Fronts on the Spatial Distribution of Albacore Tuna (*Thunnus alalunga*) in the Northeast Pacific over the past 30 years (1982-2011). *Progress in Oceanography*, in press.
- Xu, Y., K.A. Rose, F. Chai, F.P.Chavez, P. Ayon, 2015. Does spatial variation in environmental conditions affect recruitment? A study using a 3-D model of Peruvian anchovy. *Progress in Oceanography*, in press.
- Nieto, K., Y. Xu, S.L.H. Teo, S. McClatchie, and J. Holmes, 2015. How important are coastal fronts to albacore tuna (*Thunnus alalunga*) habitat in the Northeast Pacific Ocean? *Progress in Oceanography*, in press.
- Xu, Y., F. Chai, K.A. Rose and F.P. Chavez. 2013. Environmental influences on the interannual variation and spatial distribution of Peruvian anchovy population dynamics from 1991 to 2007: A three-dimensional modeling study. *Ecological Modelling*. 264:64-82.
- Yin, X., Z. Wang, Y. Liu, and Y. Xu, 2007. Ocean response to Typhoon Kettsana traveling over the northwest Pacific and a numerical model approach, *Geophysics Research Letters*, 34, L21606.

REPORTS:

- Xu, Y., S.L.H. Teo, K.R.Piner, K.-S. Chen, and R.J.D. Wells. 2014. A comparison study of North Pacific albacore (*Thunnus alalunga*) age and growth among various sources. ISC/14/ALBWG/04 Available at:
http://isc.acaffrc.go.jp/pdf/ALB/ISC14_ALB/ISC-14-ALBWG-04-AGE-GROWTH_YI_etal_finalversion.pdf
- Xu, Y., S.L.H. Teo, and J. Holmes. 2014. An update of the standardized abundance index of US and Canada Pacific albacore troll and pole-and-line fisheries on the West Coast of North America (1966-2011). ISC/14/ALBWG/03 Available at:
http://isc.acaffrc.go.jp/pdf/ALB/ISC14_ALB/ISC-14-ALBWG-03-USCA_CPUE_INDEX_Yi_etal-finalversion.pdf
- Xu, Y., S.L.H. Teo, and J. Holmes. 2013. An update of the standardized abundance index of US and Canada albacore troll fisheries in the North Pacific (1966-2012). ISC/2013/ALBWG-03/06 Available at: http://isc.acaffrc.go.jp/pdf/ALB/ISC13_ALB_2/ISC_13_ALBWG_03_06_Xu_v3.pdf
- Xu, Y., S.L.H. Teo, and J. Holmes. 2013. Environmental influence on albacore tuna (*Thunnus*

alalunga) distribution in the coastal and open oceans of the northeast Pacific: from Boosted Regression Trees Model. ISC/2013/ALBWG-01 Available at :
http://isc.acaffrc.go.jp/pdf/ALB/ISC13_ALB_1/ISC_13_ALBWG-01_01_YiXu_etal.pdf

MANUSCRIPTS IN PREPARATION:

- Snyder, S., S. Kohin, **Y. Xu**, L.D.Talley, and P.J.S. Franks. Crossing the line: Tunas actively exploit submesoscale fronts to enhance foraging success. Nature. under review.
- **Xu, Y.**, H-H Lee, K. Piner and S. Teo A user-friendly ADMB and R package to estimate growth model parameters using a length-conditional approach, in preparation.
- **Xu, Y.**, S. Teo, S. Snyder and S. Kohin. Migration behavior changes of juvenile North Pacific albacore linking to environmental variability, in preparation.